

**AMENDMENT TO THE CLAIMS**

Please enter the following amendments to the claims without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents as follows:

1. (Currently Amended) A recombinant adenovirus vector, comprising: (i) a gene encoding a heterologous protein; (ii) a wild-type Ad5 fiber protein comprising an immunoglobulin-binding domain of *Staphylococcus aureus* Protein A, wherein said immunoglobulin-binding domain is a C Domain of *Staphylococcus aureus* Protein A, and wherein said immunoglobulin-binding domain is inserted at the carboxy terminus of said fiber protein; and (iii) a gene encoding a fusion protein, wherein the fusion protein comprises (a) comprising a targeting ligand selected from the group consisting of CD40 ligand and a single chain fragment (scFv) of anti-human CD40 antibody and (b) an immunoglobulin Fc domain.

2. (Cancelled)

3. (Previously Presented) The adenovirus vector of claim 1, wherein said immunoglobulin-binding domain is inserted at the HI loop or the carboxy terminal of said fiber protein.

4. (Cancelled)

5. (Currently Amended) The adenovirus vector of claim 1, wherein said fiber protein is a fiber-fibritin chimera, and said immunoglobulin-binding domain is inserted at the carboxy ~~terminal~~ terminus of said fiber-fibritin chimera.

6. (Cancelled)

7. (Previously Presented) The adenovirus vector of claim 1, wherein said heterologous protein is a tumor associated antigen.

8. (Previously Presented) The adenovirus vector of claim 7, wherein said tumor associated antigen is prostate-specific membrane antigen.

9. (Currently Amended) A recombinant adenovirus vector, comprising: (i) a gene encoding a heterologous protein; (ii) a modified fiber protein comprising an immunoglobulin-binding domain, wherein said fiber protein is a fiber-fibritin chimera, and said immunoglobulin-binding domain, wherein said immunoglobulin-binding domain is a C Domain of *Staphylococcus aureus* Protein A, is inserted at the carboxy terminus of said fiber protein; and (iii) a gene encoding a fusion protein comprising (a) an immunoglobulin Fc domain and (b) a

targeting ligand selected from the group consisting of CD40 ligand and a single chain fragment (scFv) of anti-human CD40 antibody.

10. (Previously Presented) The adenovirus vector of claim 9, wherein said immunoglobulin-binding domain is inserted at the HI loop or the carboxy terminal of said fiber protein.

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) The adenovirus vector of claim 9, wherein said fiber protein is a fiber-fibrin chimera, and said immunoglobulin-binding domain is inserted at the carboxy ~~terminal~~ terminus of said fiber-fibrin chimera.

14. (Cancelled)

15. (Previously Presented) The adenovirus vector of claim 9, wherein said anti-human CD40 antibody is G28.5.

16. (Previously Presented) The adenovirus vector of claim 9, wherein said heterologous protein is a tumor associated antigen.

17. (Previously Presented) The adenovirus vector of claim 16, wherein said tumor associated antigen is prostate-specific membrane antigen.

18. (Previously Presented) The adenovirus vector of claim 9, wherein said gene encoding said heterologous protein and said gene encoding said fusion protein are operably linked to a dendritic cell-specific promoter.

19. (Cancelled)

20. (Cancelled)

21. (New) An adenoviral vector complex comprising (i) a recombinant adenovirus vector comprising (a) a gene encoding a heterologous protein and (b) a wild-type Ad5 fiber protein comprising a C Domain of Staphylococcus aureus Protein A inserted at the carboxy terminus of the fiber protein, and (ii) a recombinant adenovirus vector comprising a wild-type Ad5 comprising a secretory leader sequence and anti-CD40 single chain antibody tagged with an Fc domain of human immunoglobulin.

22. (New) The adenoviral vector complex of claim 21, wherein the anti-CD40 single chain antibody is G28.5.